

FIG. 1A

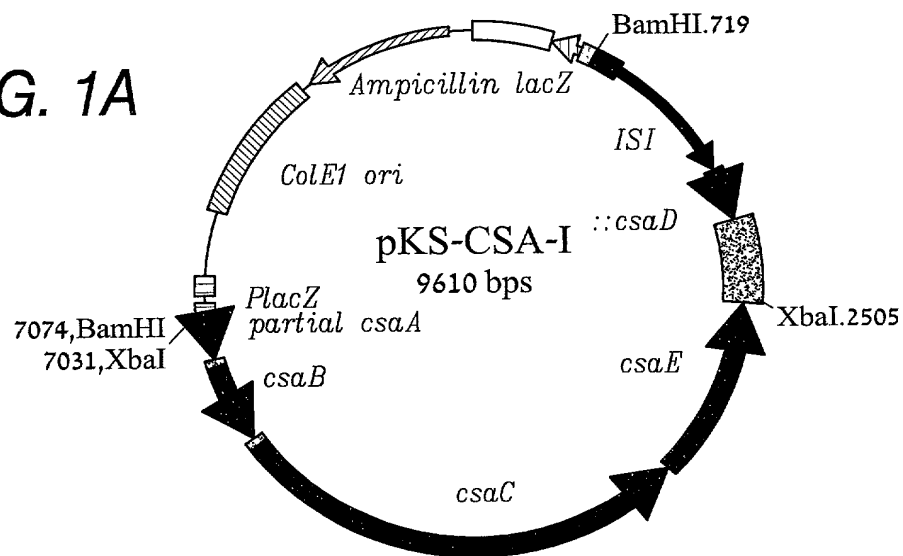


FIG. 1B

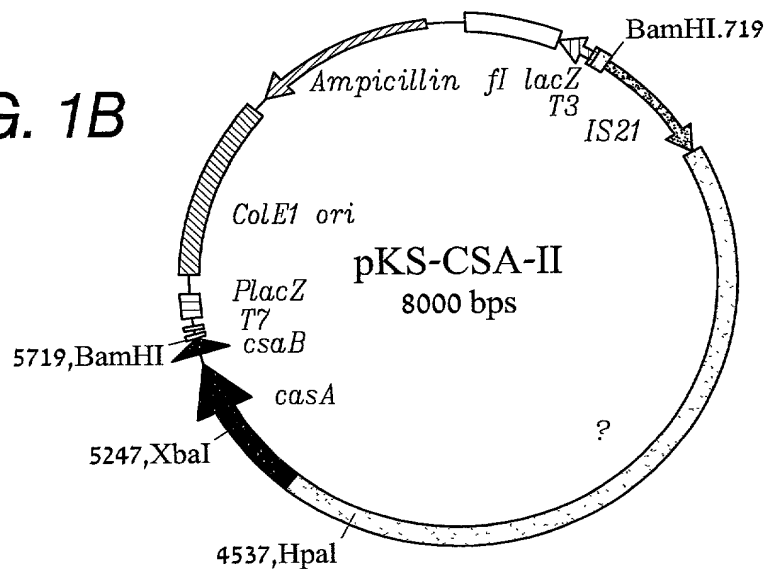


FIG. 1C

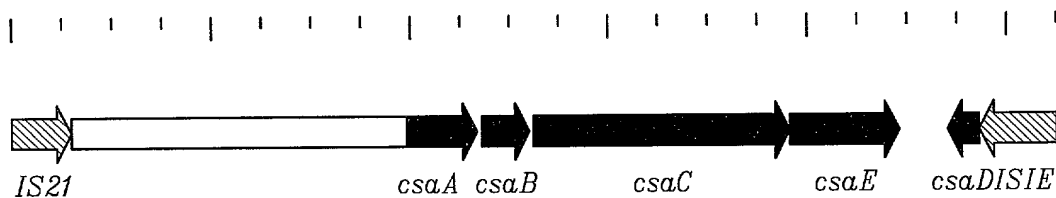


FIG. 1D



FIG. 2B

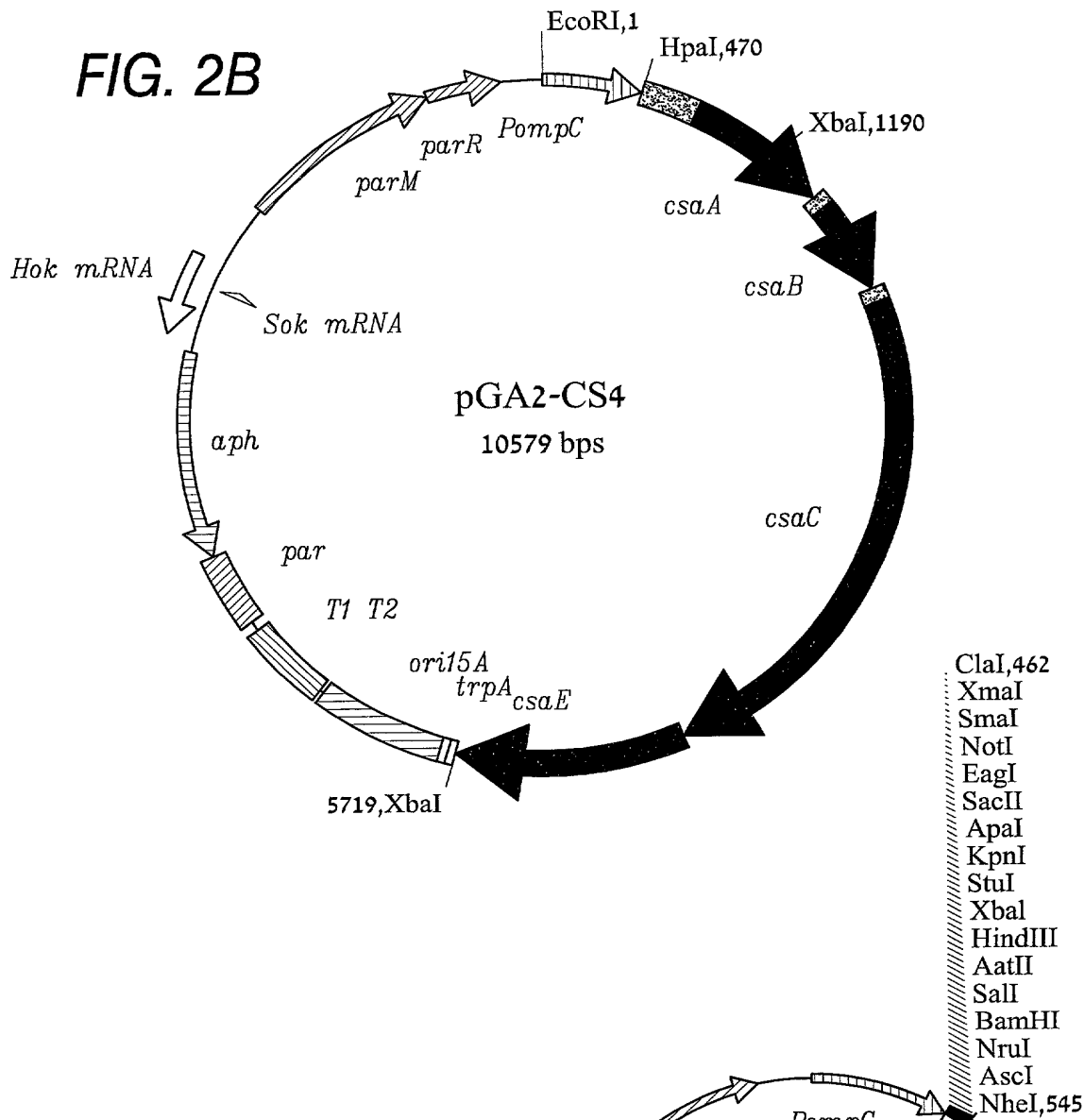
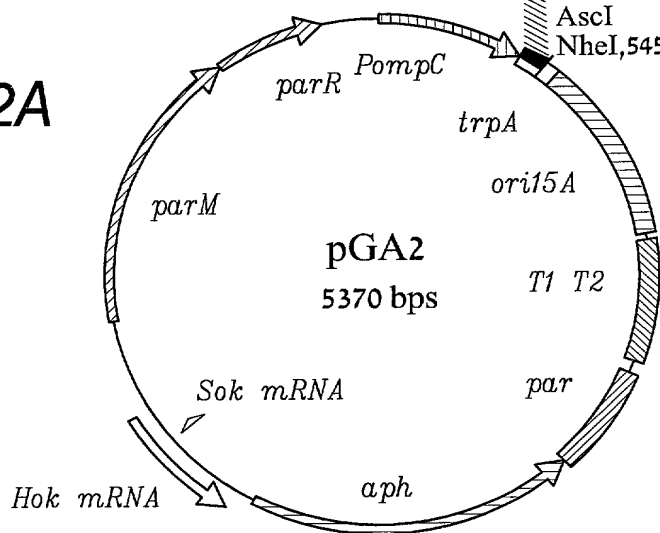


FIG. 2A



	1	50
CsaE	TMNKILFIFT LFFSSVLFTF AVSADKIPGD ESITNIFGP. RDRNESS	P
CfaE	.MNKILFIFT LFFSSGFTF AVSADKNPGS ENMTNTIGP. HDRGGSS	P
CotD	.MKKVIFVLS MFLCSQVYGQ SWHTNVEAGS INKTFSIGP. IDRSAAASY	P
CooD	.MKKIFIFL SIIFSAVVSA GRYPETTVGN LTKSFQAPR. LDRSVQS	P
TsaD	MSNIC4KWTSMT TAHWSAIINF IRKYVYPARI IAIL114AGAT LPQVADAITV	
Consensus	..nK.....fSafrag. iag.- ldr.a.a.....p	
	51	100
CsaE	KHNILNNHIT A YSESH TLYDRMT.FL CLSSHNTLNG ACPTSENPS	
CfaE	IYNILNSYLT A YNGSH HLYDRMS.FL CLSSQNTLNG ACPSSDAPGT	
CotD	AHYIFHEBVA G YNKDH SLFDRMT.FL CMSSTDASKG ACPTGENSKS	
CooD	IYNIFTNHVA G YLSH SLYDRIV.FL CTSSSNPVNG ACPTIGTSGV	
TsaD	DLNYDKNNVA VITPVWSQEW SVANVLGGWV CRSNRNENEG CEETHLVWV	
Consensus	..ni..nhvays..h sljr-fl C.Ss.#...G ACpt	
	101	150
CsaE	SSVSGETNIT LQFTEKRS LI KRELQIKGYK QLLFKSVNC. ..PSGLTLNS	
CfaE	ATIDGETNIT LQFTEKRS LI KRELQIKGYK QFLFKNANC. ..pSKLALNS	
CotD	S..QGETNIK LIFTEKKS LA RKTNLKGYK RFLYESDRCI HYVDKMNLNS	
CooD	Q..YGTITIT LQFTEKRS LI KRNINAGNK KPIWENQSC. DFSNIMVLNS	
TsaD	YAFGAYSXIR LRFREQISHA EITLILLGSV R DAC. TGVINMNA	
Consensus	-g.t.i. L.FtEk.Sla ..U.I.G.k rd-C. yn\$Ns	
	151	200
CsaE	AHFNCNKNA. ASGASLYLYI PAGELKNLPF GGIWDATLKL RVKRR ... YS	
CfaE	SHFQCNREQ. ASGATLSLYI PAGELKNLPF GGWNAVLKL NvKRR ... Y	
CotD	HTVKCVGSF. TRGVDFTLTYI PQGEIDGLLT GGIWKATLEL RVKRH . YD	
CooD	KSWSCGA.HGN ANGTLNLYI PAGEINKLPF GGIWEATLIL RLSRYGEVSS	
TsaD	AACQW GRSLKLRI PSEELAKIPT SGTWKATLVL DYLQWG. .GD	
ConsensuscG.....l.Lyl P.gEl.kipt gGiW.AiL.L rr.g d	
	201	250
CsaE	ETYGTYTINI TIKLTDK-.G NIQIWLPPF- KSDARVDLNL RPTGGGTYIG	
CfaE	TTYGTYTINI TVNLTDK..G NIQIWLPPF. KSNARVDLNL RPTGGGTYIG	
CotD	YNHGTYKVNI TVDLTDK..G NIQVWTPKF- HSDPRIDLNL RPEGNGKYSG	
CooD	THYGNVTVNI TVDLTDK-.G NIQVWLPFG. HSNPRVDLNL RPIGNKYSG	
TsaD	DPLGTSTTDI TLNVDHFAE NAAIYFPQFG TATPRVDLNL HRMNASQMSG	
Consensus	--- Gtyt-#l Tv.ITDk..g Niq!w.PqF. s.p!DLNL rp.g ... ysG	
	251	300
CsaE	RNSVDMCFYD GYSTNSSSLE IRFQDNNPKS DGKFYLKIN DDTKEIAYTL	
CfaE	RNSVDMCFYD GYSTMSSSLE IRFQDDNSKS DGKFYLKIN DDSKELVYTL	
CotD	SNVLEMCLYD GYSTHSQSIE MRFQDDSQTG NNEYNLIKTG EPLKKLPYKL	
CooD	SNSLDMCFYD GYSTNSDSMV IKFQDDNPTN SSEYNLYKIG G.TEKLPAV	
TsaD	RANLDMCLYD G.GVKARSLQ MMEGSNKSG TG.FQVIK.S DSADTIDYAV	
Consensus	m.l#MC1YD Gyst.s.Sl. mkf#ddn..g g-%.liK.. d 1. Yav	
	301	350
CsaE	SLLLAGXSLT PTNGTSLNIA DAASLFTNWN RITAVTMPEI SVPVLCWPGR	
CfaE	SLLLAGKNLT PTNGQALNI. NTASLETNWN RITAVTMPEI SVPVLCWPGR	
CotD	SLLGGREFY PNNGKAFTIN DTSSLFINWN RIKSVSLPQI SIPVLCWPAN	
CooD	SLI14GEKIFY PVNGQSFTIN DSSVLETNWN RVTAVAMPEV NVPVLCWPAR	
TsaD	SMNYGGRSIP VTRGVEFSLD NVDKAATR. .PVLPGQ RQAVRCVPVP	
Consensus	SSl.ggr..... -- ptnG-..... f.i. # --- l.tnwn rV.7\$P pVlcwp	
	351	383
CsaE	LQLDAK ... V ENPEAGQYMG NINVTFTPSS QTL	
CfaE	LQLDAK ... V KNPEAGQYMG NIKITFTPSS QTL	
CotD	LTFMSE ... L NNPEAGEYS ILNVTFTPSS SSL	
CooD	LLLNAD ... V NAPDAGQYSG QIYITFTPSS ENL	
TsaD	LTLTTQPFNI REKRSGEYQG TLTVTMLMGT QTP	
Consensus	Ltlp.aG#Y.G .l-!Ttfs. qtl	

Fig. 3

1 60
CsaB MKLKKKTIGAM ALTTMFVAMS ASAVEKNITV TASVDPTIDI LQADGSSLPT AVELTYSPAA
CfaA MKFKKTIGAM ALTTMFVAVS ASAVEKNITV TASVDPAIDL LQADGNALPS VKLAYSPAS
CooA MKLKKKTIGAM ALATLFATMG ASAVEKTISV TASVDPTVDL LQSDGSALPN VALTYSPAV
CotA MKLNKIIGAL VLSSTFVSMG ASAAEKNITV TASVDPTIDL MQSDGTALPS AVNIAYLPGE
CsuA1 MKLKYTIGAM ALSTIFVAVS ASAVEKNITV TASVDPTIDI, LQANGSALPT AVDLTYLPGA
CsuA2 VDPPTIDI LQANGSALPT AVDLTYLPGA
CsdA VDPKLDL LQADGTSPLD SIALTYSSAS
CsbA VDPKLDL LQADGTSPLD SIALTYSSAS
Consensus mk..k.iga. .l ... f asa.ek.i.v tasVDPTiDI \$Qa#GtaLP. a!.ltYspa.

61 120
CsaB SRFENYKIAT KVHTNVINKN VLVKLVNDPK -LTNVLDSTK QLPITVSYGG K-LSTADVTF
CfaA KIFESYRVMT QVHTNDATKK VIVKLADTPQ -LTDV.LNSTV QMPISVSWGG VLSTTAKEF
CooA NNFEAHTINT VVHTNDSDBG VVVKLSADPV -LSNVLNPTL QIPVSVNFAG KPLSTTGITI
CotA KRFESARINT QVHTNNKTKG IQIKLTNDNV VMTNLSDPK TIPLEVSVFAG TKLSTAATSI
CsuA1 KTFENYSVLT QIYTNDPSKG LDVRLVDTPK -LTNQLPTS TIPLTVSWAG RTLSTSAQKI
CsuA2 KTFENYSVLT QIYTNDPSKG LDVRLVDTPK -LTNQLPTS TIPLTVSWAG KTLSTSAQKI
CsdA NNFEVYSLNT AIHTNDKTKA VVVKLSAPAV -LSNIMKPSS QIPMKVTLGG KTLSTADAEF
CsbA NNFEVYSLNT AIHTNDKSKG VVVKLSASPV -LSNIMXPNS QIPMKVTLGG ETLNTTDETF
Consensus ..FE.ys.nT .!hTN#k.Kg v.!kL...pv .StNi..p.s qiP..Vs.gG tLsT f,

121 179
CsaB EPAELNFGTS GVTGVSSSQD LVIGA---T TAQAPSA-NY SGVVSILMTL AS
CfaA EAAALGYSAS GVNGVSSSQE LVISA-APKT AGTAPTAGNY SGVVSILMTL GS
CooA DSNLNFASS GVNYVSSTQK LSIHADATRV TGGALTAGQY QGLVSILTK ST
CotA TADQLNFGAA GVETVSATKE LVINAGSTQQ TN--IVAGNY QGLVSIVLTQ EP
CsuA1 AVGDLGFGST GTAGVSNKE LVIGA---TT SGK-PSAGKY QGVVSIVMTQ STN
CsuA2 AVGDLGFGST GTAGVSNKE LVIGA---TT SGTAPSAGKY QGVVSIVMTQ STDTAAPVP
CsdA AADTLNFGAS GVENVSSTQQ LTIHA --- EA --APPEAGNY QGVISLIMTQ KT
CsbA TVDTLNFGTS GVENVSSTQQ LTIHA --- DT QGTAPEAGNY QGIISLIMTQ KT
Consensus-.d.LnFg.s Gve.VSs.q. LvI.A t g.ap.AGnY qGv!Si!\$Tq t

Multalin (version 5.4. 1). Consensus symbols: ! is anyone of IV; \$ is anyone of LM; % is anyone of FY; # is anyone of NDQEBZ

Fig. 4.